



## SEQUENCE LISTING

<110> Tobin, Elaine  
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Sun, Lin  
The Regents of the University of California

<120> Phytochrome Regulated Transcription Factor for Control  
of Higher Plant Development

<130> 023070-124200US

<140> US 10/084,553

<141> 2002-02-25

<150> US 68/843,572

<151> 1997-04-18

<160> 27

<170> PatentIn Ver. 2.1

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Gly Ser Glu Lys Val Ser His Pro Glu	
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Met Ala Asn Glu Asp Arg Gln Gln Ser Lys Pro Glu Glu Lys	
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Gln Thr Tyr Pro Met His Ile Pro Val Leu Val Pro Leu Gly Ser Ser	
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Ile Thr Ser Ser Leu Ser His Pro Pro Ser Glu Pro Asp Ser His Pro	
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His Thr Val Ala Gly Asp Tyr Gln Ser Phe Pro Asn His Ile Met Ser	
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Cys Asp Val Glu Tyr Thr Lys Ala Ser Thr Leu Gln His Gly Ser Val	
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 Arg Glu Glu Glu Gln Gln Gln Glu Gln Arg Tyr Pro Met Ala Leu  
 515 520 525  
 Asp Leu Asn Phe Thr Ala Gln Leu Thr Pro Val Asp Asp Gln Glu Glu  
 530 535 540  
 Lys Arg Asn Thr Gly Phe Leu Gly Ile Gly Leu Asp Ala Ser Lys Leu  
 545 550 555 560  
 Met Ser Arg Gly Arg Thr Gly Phe Lys Pro Tyr Lys Arg Cys Ser Met  
 565 570 575  
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fragments of clones 21 and 24

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27

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for pXCA-21, pXCA-24 and pXCA-25

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for pXCA-21, pXCA-24, pXCA-25 and pXCA-23

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27

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10-bp repeated sequence protected from cleavage

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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:m1 mutant probe

<400> 16  
aatctgcgaa gtgcgagcca ttaaccacgt aagcgagtt acaagcgaaa ccccagaata 60  
catctatgac tagccaatag caacctca 88

<210> 17  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:m2 probe

<400> 17  
taaccacgt agcgagttaa caagcgaaac cccaaaaaaa ac 42

<210> 18  
<211> 43  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:m3 probe

<400> 18  
ttaaccacgt aagcaaacaa acaatctaaa ccccagaata cac 43

<210> 19  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:m4 probe

<400> 19  
 agcaaacaaa caatataaac cccaaaaaaaaa atttatgact

40

<210> 20  
 <211> 40  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:WT2 probe

<400> 20  
 actaaacgat aaaacaaaaa tcttaaaatc caatgaatga

40

<210> 21  
 <211> 52  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:CCA1 residues  
 24-75

<400> 21  
 Arg Glu Arg Trp Thr Glu Glu Glu His Asn Arg Phe Ile Glu Ala Leu  
 1 5 10 15  
 Arg Leu Tyr Gly Arg Ala Trp Gln Lys Ile Glu Glu His Val Ala Thr  
 20 25 30  
 Lys Thr Ala Val Gln Ile Arg Ser His Ala Gln Lys Phe Phe Ser Lys  
 35 40 45  
 Val Glu Lys Glu  
 50

<210> 22  
 <211> 55  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Myb repeat  
 sequence from Solanum tuberosum (St1)

<400> 22  
 Gly Val Pro Trp Thr Glu Glu Glu His Arg Met Phe Leu Leu Gly Leu  
 1 5 10 15  
 Gly Lys Leu Gly Lys Gly Asp Trp Arg Gly Ile Ala Arg Asn Tyr Val  
 20 25 30  
 Ile Ser Arg Thr Pro Thr Gln Val Ala Ser His Ala Gln Lys Tyr Phe  
 35 40 45

Ile Arg Gln Ser Asn Met Ser  
 50 55

<210> 23  
 <211> 53  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Myb repeat  
 sequence from human (HMyb, CMyb))

<400> 23  
 Lys Thr Ser Trp Thr Glu Glu Glu Asp Arg Ile Ile Tyr Gln Ala His  
 1 5 10 15  
 Lys Arg Leu Gly Asn Arg Trp Ala Glu Ile Ala Lys Leu Leu Pro Gly  
 20 25 30  
 Arg Thr Asp Asn Ala Ile Lys Asn His Trp Asn Ser Thr Met Arg Arg  
 35 40 45  
 Lys Val Glu Gln Glu  
 50

<210> 24  
 <211> 53  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Myb repeat  
 sequence from Drosophila melanogaster (DMyb)

<400> 24  
 Lys Thr Ala Trp Thr Glu Lys Glu Asp Glu Ile Ile Tyr Gln Ala His  
 1 5 10 15  
 Leu Glu Leu Gly Asn Gln Trp Ala Lys Ile Ala Lys Arg Leu Pro Gly  
 20 25 30  
 Arg Thr Asp Asn Ala Ile Lys Asn His Trp Asn Ser Thr Met Arg Arg  
 35 40 45  
 Lys Tyr Asp Val Glu  
 50

<210> 25  
 <211> 53  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Myb repeat  
 sequence from Zea mays (ZmC1)

<400> 25  
 Arg Gly Asn Ile Ser Tyr Asp Glu Glu Asp Leu Ile Ile Arg Leu His  
 1 5 10 15  
 Arg Leu Tyr Gly Asn Arg Trp Ser Leu Ile Ala Gly Arg Leu Pro Gly  
 20 25 30  
 Arg Thr Asp Asn Glu Ile Lys Asn Tyr Trp Asn Ser Thr Leu Gly Arg  
 35 40 45

Arg Ala Gly Ala Gly  
50

<210> 26  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Myb repeat  
sequence from *Saccharomyces cerevisiae* (YBAS1)

<400> 26  
Leu Arg Glu Trp Thr Leu Glu Glu Asp Leu Asn Leu Ile Ser Lys Val  
1 5 10 15  
Lys Ala Tyr Gly Thr Lys Trp Arg Lys Ile Ser Ser Glu Met Glu Phe  
20 25 30  
Arg Pro Ser Leu Thr Cys Arg Asn Arg Trp Arg Lys Ile Ile Thr Met  
35 40 45  
Val Val Arg Gly  
50

<210> 27  
<211> 52  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:Myb repeat  
sequence from *Arabidopsis thaliana* (AtG11)

<400> 27  
Lys Gly Asn Phe Thr Glu Gln Glu Glu Asp Leu Ile Ile Arg Leu His  
1 5 10 15  
Lys Leu Leu Gly Asn Arg Trp Ser Leu Ile Ala Lys Arg Val Pro Gly  
20 25 30  
Arg Thr Asp Asn Gln Val Lys Asn Tyr Trp Asn Thr His Leu Ser Lys  
35 40 45  
Lys Leu Val Gly  
50